

Title (en)

Catheter with thermistor and insulating lumens

Title (de)

Katheter mit Kanälen zur Aufnahme und Isolation von Thermistoren

Title (fr)

Cathéter pourvu de canalisations destinées à loger et à isoler des thermistances

Publication

EP 0719519 B1 20020306 (EN)

Application

EP 96200407 A 19920326

Priority

- EP 92909912 A 19920326
- US 67891191 A 19910401

Abstract (en)

[origin: WO9217111A1] A catheter (11) for measuring the temperature of a fluid in a living body comprising an elongated tube (13) having at least one lumen extending longitudinally within the tube (13) and an opening (61) in a peripheral wall of the tube (13). A thermistor mounting body (63) mounts a thermistor (57) in the lumen (30) adjacent the opening. The thermistor mounting body (63) defines a cavity (67) at the opening (61) which opens radially outwardly, and the thermistor (57) is partially within the mounting body (63) and projects from the mounting body (63) into the cavity (67). There is at least one conductor (49) in the tube (13) with at least a region of the conductor (49) extending longitudinally of the lumen (29) from a location proximally of the thermistor (57) to a location at which the conductor (49) is electrically coupled to the thermistor (57). The mounting body (63) may include a matrix of electrical insulating material and a filler carried by the matrix, with the filler being more thermally conductive than the electrical insulating material. In addition, by providing a multi-lumen catheter, certain of the lumens (25, 27, 29) can be used to thermally insulate the thermistor (57) from any lumen adapted to carry fluid past the location of the thermistor (57) in the catheter (11).

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A61B 5/028

IPC 8 full level

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CPC (source: EP US)

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Cited by

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